

The Dam Seepage Monitoring System from the National Dam Safety Program

The Dam Seepage Monitoring System is a tool designed to assist dam safety engineers and owners of small to medium sized dams in managing instrumentation data associated with the long-term performance monitoring of dams. This system provides a key to understanding performance of a dam, improved safety monitoring, and reduced labor cost.

The Dam Seepage Monitoring System is a single data system for management of reservoirs and dams. Configure each of your reservoirs and dams with the appropriate instrumentation. Track reservoir surface elevations, historic highs and historic lows. Define piezometer configuration, including ground surface elevation, top of casing, gravel pack/screen elevations and high and low alert levels. Configure seepage devices, such as weirs, Parshall flume, and direct seepage measurement devices and record readings in GPM or CFS. Track rainfall data and set a high alert level.

Dam Seepage Monitoring System version 2.0 is an upgrade of version 1.0 released in 2000. The new version has improved data entry, plotting, reporting and installation.

To download the software, go to www.damsafety.org. Once you have downloaded the SETUP.EXE file, double-click on it to run the installation program. The installation program will walk you through installation of the Dam Seepage Monitoring System. A short-cut will be created on your desktop. The User Guide is available by selecting "Dam Seepage Monitoring System On-line Help" from the "Help" menu when the software is running.



Dam Seepage Monitoring System (Desktop Version 2.0)



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Download the desktop version of the Dam Seepage Monitoring System at ASDSO's website: www.damsafety.org

For additional information contact Matt Lindon (mattlindon@utah.gov) or Michele Lemieux (mlemieux@state.mt.us).

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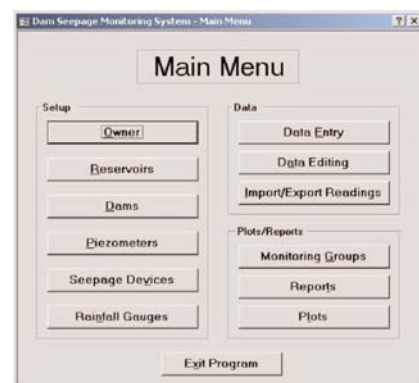
Benefits of the desktop version include:

- ▶ The Department of Homeland Security is providing the software free to state dam safety officials, dam owners, and dam operators.
- ▶ Installs on any Windows NT 4.0+, 2000, or XP computer.
- ▶ Requires no additional software.
- ▶ Stand-alone software is run individually by state dam safety officials, dam owners, and dam operators.
- ▶ Data is interchangeable with Microsoft Excel for more advanced plotting.



Features of the desktop version include:

- ▶ Single data system for multiple reservoirs and dams.
- ▶ System can be configured specific to your reservoirs and dams.
- ▶ Calculations performed automatically.
- ▶ System alerts users when data exceeds user defined high or low thresholds.
- ▶ Improved manual data entry eliminates duplicate entry screens and allows above ground water elevations.
- ▶ Import data from text (.txt) or comma delimited files (.csv).
- ▶ Export data for import into another desktop version, the web version, or other data systems.
- ▶ Improved integrated plotting system.
- ▶ Improved integrated tabular reports.
- ▶ Efficient installation program is downloadable and resolves version 1.0 installation conflicts.





Dam Seepage Monitoring System (Web Version)



The Dam Seepage Monitoring System is a tool designed to assist dam safety engineers and owners of small to medium sized dams in managing instrumentation data associated with the long-term performance monitoring of dams. This system provides a key to understanding performance of a dam, improved safety monitoring, and reduced labor cost.

The Dam Seepage Monitoring System is a single data system for management of reservoirs and dams.

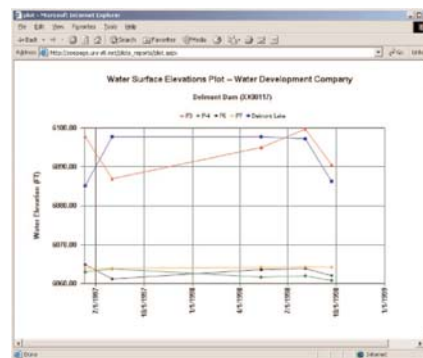
Configure each of your reservoirs and dams with the appropriate instrumentation. Track reservoir surface elevations, historic highs and historic lows. Define piezometer configuration, including ground surface elevation, top of casing, gravel pack/screen elevations and high and low alert levels. Configure seepage devices, such as weirs, Parshall flume, and direct seepage measurement devices and record readings in GPM or CFS. Track rainfall data and set a high alert level.

States should look for details on how to obtain the web version of the Dam Seepage Monitoring System at ASDSO's website: www.damsafety.org

For additional information contact Matt Lindon (mattlindon@utah.gov) or Michele Lemieux (mlemieux@state.mt.us).

Benefits of the web version include:

- ▶ The Department of Homeland Security is providing the software free to be hosted on state web sites.
- ▶ Users require only Microsoft Internet Explorer 5.0+ (available free) and an internet connection.
- ▶ Data is stored in a central repository on a database server managed by your state IT professionals.
- ▶ Secure access - only an owner's representatives and state administrators have access to an owner's data.
- ▶ Data is interchangeable with Microsoft Excel for more advanced plotting.
- ▶ Data entered into the desktop version can be imported into the web version.



Features of the web version include:

- ▶ Email notification system allows users to notify co-workers and state administrator when data is ready for review.
- ▶ System can be configured specific to your reservoirs and dams.
- ▶ Calculations performed automatically.
- ▶ System alerts users when data exceeds user defined high or low thresholds.
- ▶ Manual data entry can be performed by date or by instrument.
- ▶ Import data from text (.txt) or comma delimited files (.csv).
- ▶ Export data for import into desktop version or for viewing in Microsoft Excel.
- ▶ Integrated plotting system allows you to download the plot.
- ▶ Integrated tabular reports can be printed in letter format.